#### PACING GUIDE SCIENCE

#### Grade 6

<u>Topic</u>	<u>Unit</u>	Marking Period	Number of Days
Earth's Place in the Universe	Fusion 6th Module G Plus history of Earth from Module E Unit 2	1	40
Earth's Systems	Fusion 6th Module F and plate tectonics form Module E Unit 4	2 and 3 4	70
Earth and Human Activity	Fusion 6th Module E Unit 1 Earth's surface Fusion 6th Module E Unit 2 Geological Change Fusion 6th Module F Unit 4 Some of these standards are included in 7th grade curriculum	4	50
Engineering Design	Module K	throughout	20

Grade: 6th

Standard: MS-ESS1 Content Topic: Earth's Place in the Universe

Strand	Disciplinary Core Ideas / Essential Statement	Objective	Science & Engineering Practices / Skills & Lesson
MS-ESS1-1	patterns of the apparent motion of the sun, the moon, and stars in the sky can be observed, described, predicted, and explained with models (ESS1.A)	Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.	https://betterlesson.com/lesson/635 174/apparent-motion-of-the-sun?fr om=search https://betterlesson.com/lesson/636 034/phases-of-the-moon?from=sear ch https://betterlesson.com/lesson/645 433/seasons-tides?from=search
MS-ESS1-2	Earth and its solar system are part of the Milky Way galaxy, which is one of many galaxies in the universe (ESS1.A)	Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system	https://betterlesson.com/lesson/645 431/gravity?from=search
MS-ESS1-3		Analyze and interpret data to determine scale properties of objects in the solar system	https://betterlesson.com/lesson/638 770/planetary-distances-using-toile t-paper?from=search
MS-ESS1-4		Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6 billion year old history.	https://betterlesson.com/lesson/638 784/history-of-earth-part-1-discove ry?from=search

Formative, Summative and Alternative Assessments	Benchmark Assessments	Core Instructional and Supplemental Materials (including various texts at each grade level)
Unit Tests in 2 formats Visualizing and Verbalizing Quizzes	End of the Module Tests	Text: Science Fusion
for each section Marzano Vocabulary Slides	Use of portfolio assessments and rubric	Holt: Science
Formative Assessment Questions on every page of text	Performance Based Assessments for every unit	Middle School Chemistry
Probing Questions on every page	every unit	Better Lessons
Why It Matters Text to Life Questions		Khan Academy

Alternative Assessment- Alternative Assessment Science Fusion for every section	Edpuzzle
Test Doctor for every assessment	
1-3 Performance Based Quick Labs for every lessons:	
Labs- D-Model Moon Phases	
Eclipses of the Sun and Moon-D-Exploring Eclipses-Model Solar and Lunar Eclipse	
Seasons-D-Changes in Stars Seen in the Night Sky and Navigation Using the Stars	
Model Sunlight Distribution	
Analyze an Earth/Sun Model to Explain Seasons	
Mass vs Weight Lab Egg Drop Engineering Project	
PhET simulations-My Solar System	
Explore the Motion of a Falling Object	
Schoolyard Solar System	
Model Rock Layers to Determine Relative Age	
Construct a Timeline	
Model Analysis of the Fossil Record	
Alternative Assessment- Alternative Assessment Book- Science Fusion	

Technology	Crosscutting Concepts / Interdisciplinary Connections across grade levels and content areas (at least 1)
<ul> <li>Book Available On line</li> <li>Lab Posted on Google Classroom and done in Kami</li> <li>Middle School Chemistry Multimedia</li> </ul>	ELA-technical lab report Math-computation

Animations

https://www.middleschoolchemistry.com/

• Better Lessons https://betterlesson.com/search?from=mtp\_intro &types=lesson&subjects=2

Khan Academy
 <a href="https://www.khanacademy.org/">https://www.khanacademy.org/</a>

Bozeman Science
 <a href="http://www.bozemanscience.com/next-generation-science-standards">http://www.bozemanscience.com/next-generation-science-standards</a>
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Quizlet

Differentiation (IEPs / 504s)	Differentiation (ELL)	Differentiation (G &T)
Visual aids	Visual aids	Independent research projects
Sentence Frames	Sentence Frames	Advanced texts
Modeling	Modeling	http://education.jlab.org/vocabhang
Anchor charts	Anchor charts	man/ Science content vocabulary hangman
Modify rubric	Modify rubric	http://kids.nationalgeographic.com/
Teacher directed grouping	Teacher directed grouping	National Geographic online
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Re-read text at teacher discretion	Re-read text at teacher discretion	ml Interactive science activities
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	Pre-teach vocabulary	mes, plantes animais.neminiteractive
	Non-linguistic cues	
	Manipulatives	
	Graphic organizers Use of educational websites: www.khanacademy.org www.colorincolorado.org/	

21st Century Education	Career Education
THEMES: Global Awareness Financial, Economic, Business and	Career Ready Practices describe the career-ready skills that all educators in all content areas should seek to develop in their students. They are practices that have been linked to increase college, career, and life success. Career Ready Practices should be taught and reinforced in all career exploration

Entrepreneurial Literacy Civic Literacy Health Literacy	and preparation programs with increasingly higher levels of complexity and expectation as a student advances through a program of study.
SKILLS: Creativity and Innovation Critical Thinking and Problem Solving Communication and Collaboration Information Literacy Media Literacy ICT Literacy Life and Career Skills	CRP1. Act as a responsible and contributing citizen and employee. CRP2. Apply appropriate academic and technical skills. CRP3. Attend to personal health and financial well-being. CRP4. Communicate clearly and effectively and with reason. CRP5. Consider the environmental, social and economic impacts of decisions. CRP6. Demonstrate creativity and innovation. CRP7. Employ valid and reliable research strategies. CRP8. Utilize critical thinking to make sense of problems and persevere in solving them. CRP9. Model integrity, ethical leadership and effective management. CRP10. Plan education and career paths aligned to personal goals. CRP11. Use technology to enhance productivity. CRP12. Work productively in teams while using cultural global competence.

Standard: MS-ESS2 Content Topic: Earth's Systems

Strand	Disciplinary Core Ideas / Essential Statement	Objective	Science & Engineering Practices / Skills & Lesson
MS-ESS2-1	all Earth processes are the result of energy flowing and matter cycling within and among the planet's systems. This energy is derived from the sun and Earth's hot interior. The energy that flows and matter that cycles produce chemical and physical changes in Earth's materials and living organisms (ESS2.A)	Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process	develop and use a model to describe phenomena Air, Air, It's Really There Middle School Chemistry Better Lessons What is Air? What is a Gas? https://betterlesson.com/lesson/616 057/eliciting-student-ideas-what-is-air-what-is-a-gas?from=search
MS-ESS2-2	the planet's systems interact over scales that range from microscopic to global in size, and they operate over fractions of a second to billions of years. These interactions have shaped Earth's history and will determine its future. (ESS2.A)Water's movements- both on the land and underground-cause weathering and erosion, which change the land's surface features and create underground formations (ESS2.C)	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales	construct a scientific explanation based on valid and reliable evidence obtained from sources (including the students' own experiments) and the assumption that theories and laws that describe nature operate today as they did in the past and will continue to do so in the future What is Heat/What is Temperature? https://betterlesson.com/lesson/627828/eliciting-student-ideas-what-is-heat-what-is-temperature?from=search  Mechanical Weathering Lab Fusion
MS-ESS2-3	Tectonic processes continually generate new ocean sea floor at ridges and destroy old sea floor at trenches (ESS1.C)maps of ancient land and water patterns, based on in investigations of rocks and fossils, make clear how Earth's plates have moved great distances, collided, and spread apart (ESS2.B)	Analyze and interpret data on the distribution of fossils and rocks, continental shapes and seafloor structures to provide evidence of the past plate motions	analyze and interpret data to provide evidence for phenomenaScience findings are frequently revised and / or reinterpreted based on new evidence  Tectonic Ice Cubes-Fusion Science  Reconstructing Land Masses-Fusion Science  Seafloor Spreading-Fusion Science

			What Happens When Objects Collide-Fusion Science
MS-ESS2-4	Water continually cycles among land, ocean, and atmosphere via transpiration, evaporation, condensation and crystallization, and precipitation, as well as downhill flows on land (ESS2.C)		develop a model to describe unobservable mechanisms Modeling the Water Cycle-Fusion Science Can You Make It Rain in a Jar
	Global movements of water and its changes in form are propelled by sunlight and gravity (ESS2.C)	Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity	Fusion Science Reaching the DewPoint-Fusion Science
MS-ESS2-5	The complex patterns of the changes and the movement of water in the atmosphere, determined by winds, landforms, and ocean temperatures and currents are major determinants of local weather patterns (ESS2.C)Because these patterns are so complex, weather can only be predicted probabilistically	Collect data to provide evidence for how the motions and complex interactions of air masses result in changes in weather conditions	Collect data to produce data to serve as the basis for evidence to answer scientific questions or test design solutions under a range of conditions  Fusion Science Classifying Clouds Comparing Different Ways to Estimate Wind Speed Out of Thin Air Analyze Weather Patterns  Better Lessons Air Masses and Fronts https://betterlesson.com/lesson/631 782/air-masses-and-fronts?from=se arch
MS-ESS2-6	Variations in density due to variations in temperature and salinity drive a global pattern of interconnected ocean currents (ESS2.C)Weather and climate are influenced by interactions involving sunlight, the ocean, the atmosphere, ice, landforms, and living things. These interactions vary with latitude, altitude, and local and regional geography, all of which can	Develop and use a model to describe how unequal heating and rotation of the Earth causes patterns of atmospheric and oceanic circulation that determine regional climates	develop and use a model to describe phenomena Science Fusion Ocean Density Evaporation Rates Measuring Salinity Factors in Wave Formation Modeling the Coriolis Effect The Formation of Deep Currents Can Messages Travel on Ocean Water

affect oceanic and atmospheric flow patterns (ESS2.D)	
The ocean exerts a major influence on weather and climate by absorbing energy from the sun, releasing it over time, and globally redistributing it through ocean currents (ESS2.D)	

Formative, Summative and Alternative Assessments	Benchmark Assessments	Core Instructional and Supplemental Materials (including various texts at each grade level)
Unit Tests in 2 formats Visualizing and Verbalizing Quizzes for each section Marzano Vocabulary Slides Formative Assessment Questions on every page of text Probing Questions on every page Why It Matters Text to Life Questions Alternative Assessment- Alternative Assessment Science Fusion for every section  Test Doctor for every assessment  1-3 Performance Based Quick Labs for every lessons:  LABS- Modeling Weathering, Erosion, and Deposition  Rock Cycle Model (RESA)  Model the Movement of Continents  Analyze Visual Evidence  Modeling the Water Cycle  Identify Weather Associated with Pressure Systems  Model an Air Mass Interaction  Model Your Climate  Alternative Assessments:	End of the Module Tests  Use of portfolio assessments and rubric Performance Based Assessments for every unit	Text: Science Holt: Science Middle School Chemistry Better Lessons Khan Academy Edpuzzle

Technology	Crosscutting Concepts / Interdisciplinary Connections across grade levels and content areas (at least 1)
<ul> <li>Book Available On line</li> <li>Lab Posted on Google Classroom and done in Kami</li> <li>Middle School Chemistry Multimedia Animations         https://www.middleschoolchemistry.com/     </li> <li>Better Lessons         https://betterlesson.com/search?from=mtp_intro &amp;types=lesson&amp;subjects=2     </li> <li>Khan Academy         https://www.khanacademy.org/     </li> <li>Bozeman Science         http://www.bozemanscience.com/next-generation-science-standards     </li> <li>Quizlet</li> </ul>	explanations of stability and change in natural or designed systems can be constructed by examining the changes over time and processes at different scales, including the atomic scale time, space, and energy phenomena can be observed at various scales using models to study systems that are too large or too small patterns in rates of change and other numerical relationships can provide information about natural systems within a natural or designed system, the transfer of energy drives the motion and / or cycling of matter cause and effect relationships may be used to predict phenomena in natural and designed systems
	models can be used to represent systems and their interactionssuch as inputs, processes and outputs and energy, matter, and information flows within systems

Differentiation (IEPs / 504s)	Differentiation (ELL)	Differentiation (G &T)
Visual aids	Visual aids	Independent research projects
Sentence Frames	Sentence Frames	Advanced texts
Modeling	Modeling	http://education.jlab.org/vocabhang
Anchor charts	Anchor charts	man/ Science content vocabulary hangman
Modify rubric	Modify rubric	http://kids.nationalgeographic.com/
Teacher directed grouping	Teacher directed grouping	National Geographic online
Chunk learning at teacher discretion	Chunk learning at teacher discretion	http://www.bbc.co.uk/schools/scienc eclips/ages/10_11/science_10_11.sht
Re-read text at teacher discretion	Re-read text at teacher discretion	ml Interactive science activities
Text in auditory format	Text in auditory format	http://classroom.jc-schools.net/sci-u nits/plants-animals.htm#Interactive
	Pre-teach vocabulary	ints/piants-animais.htm#interactive

Non-linguistic cues	
Manipulatives	
Graphic organizers Use of educational websites: www.khanacademy.org www.colorincolorado.org/	

21st Century Education	Career Education
THEMES: Global Awareness Financial, Economic, Business and Entrepreneurial Literacy Civic Literacy Health Literacy  SKILLS: Creativity and Innovation Critical Thinking and Problem Solving Communication and Collaboration Information Literacy Media Literacy ICT Literacy Life and Career Skills	Career Ready Practices describe the career-ready skills that all educators in all content areas should seek to develop in their students. They are practices that have been linked to increase college, career, and life success. Career Ready Practices should be taught and reinforced in all career exploration and preparation programs with increasingly higher levels of complexity and expectation as a student advances through a program of study.  CRP1. Act as a responsible and contributing citizen and employee.  CRP2. Apply appropriate academic and technical skills.  CRP3. Attend to personal health and financial well-being.  CRP4. Communicate clearly and effectively and with reason.  CRP5. Consider the environmental, social and economic impacts of decisions.  CRP6. Demonstrate creativity and innovation.  CRP7. Employ valid and reliable research strategies.  CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.  CRP9. Model integrity, ethical leadership and effective management.  CRP10. Plan education and career paths aligned to personal goals.  CRP11. Use technology to enhance productivity.  CRP12. Work productively in teams while using cultural global competence.

Standard: MS-ESS3 Content Topic: Earth and Human Activity

Strand	Disciplinary Core Ideas / Essential Statement	Objective	Science & Engineering Practices / Skills & Lesson
MS-ESS3-1	humans depend on Earth's land, ocean, atmosphere, and biosphere for many different resources. Minerals, fresh water, and biosphere resources are limited, and many are not renewable or replaceable over human lifetimes. These resources are distributed unevenly around the planet as a result of past geologic processes (ESS3.A)	Construct a scientific explanation based on evidence for how the uneven distribution of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes	construct a scientific explanation based on valid and reliable evidence obtained from sources (inducing the students' own experiments) and the assumption that theories and laws that describe the natural world operate today as they did in the past and will continue to do so in the future.
MS-ESS3-2	Mapping the history of natural hazards in a region, combined with an understanding of related geologic forces can help forecast the locations and likelihoods of future events (ESS3.B)	Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their efforts	analyze and interpret data to determine similarities and differences in findings
MS-ESS3-3	Human activities have significantly altered the biosphere, sometimes damaging or destroying natural habitats and causing the extinction of other species. But changes to Earth's environments can have different impacts (negative and positive) for different living things (ESS3.C)Typically, as human populations and per-capita consumption of natural resources increase, so do the negative impacts on Earth unless the activities and technologies involved are engineered otherwise (ESS3.C)	apply scientific principles to design a method for monitoring and minimizing a human impact on the environment	apply scientific principles to design an object, tool, process or system

MS-ESS3-4	Typically, as human populations and per-capita consumption of natural resources increase, so do the negative impacts on Earth unless the activities and technologies involved are engineered otherwise (ESS3.C)	construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's system	construct an oral and written argument supported by empirical evidence and scientific reasoning to support or refute an explanation or a model for a phenomenon or a solution to a problem
MS-ESS3-5	11 5	ask questions to clarify evidence of the factors that have caused climate change over the past century	ask questions to identify and clarify evidence of an argument

Formative, Summative and Alternative Assessments	Benchmark Assessments	Core Instructional and Supplemental Materials (including various texts at each grade level)
Unit Tests in 2 formats Visualizing and Verbalizing Quizzes	End of the Module Tests	Text: Science Fusion
for each section Marzano Vocabulary Slides	Use of portfolio assessments and rubric	Holt: Science
Formative Assessment Questions on every page of text	Performance Based Assessments for every unit	Middle School Chemistry
Probing Questions on every page Why It Matters Text to Life Questions		Better Lessons
Alternative Assessment- Alternative Assessment Science Fusion for every		Khan Academy
section		Edpuzzle
Test Doctor for every assessment		
1-3 Performance Based Quick Labs for every lessons:		

Energy Debate
Chocolate Earth (RESA)
Catastrophism vs Uniformitarianism
Assess Building sites near a volcano
Analyze Eruption Data
Severe Weather Webquest
Design an Experiment to Monitoring Recycling and then Increase efforts to recycle The Great Pacific Garden Patch
The Majestic Plastic Bag
Sludge is in the Air
Heat and Pressure in the atmosphere
Model the Greenhouse Effect
Identify Global Climate Change Factors
Analyzing Recent Climate Change
Understanding the Effects of Climate Change
Alternative Assessment: Alternative Assessment Book- Science Fusion

Technology	Crosscutting Concepts / Interdisciplinary Connections across grade levels and content areas (at least 1)
Book Available On line	
<ul> <li>Lab Posted on Google Classroom and done in</li> </ul>	cause and effect relationships may be used to predict
Kami	phenomena in natural or designed systems
<ul> <li>Middle School Chemistry Multimedia</li> </ul>	
Animations	All human activity draws on natural resources and has
https://www.middleschoolchemistry.com/	both short and long-term consequences, positive as well as
Better Lessons	negative, for the health of people and the natural
https://betterlesson.com/search?from=mtp_intro	environment
&types=lesson&subjects=2	
	graphs, charts and images can be used to identify
Khan Academy	patterns in data
https://www.khanacademy.org/	

- Bozeman Science <a href="http://www.bozemanscience.com/next-generatio">http://www.bozemanscience.com/next-generatio</a> <a href="mailto:n-science-standards">n-science-standards</a>
- Quizlet

- ---The uses of technologies and any limitations on their use are driven by individual or societal needs, desires, and values; by the findings of scientific research; and by differences in such factors as climate, natural resources, and economic conditions. Thus, technology use varies from region to region over time
- ---relationships can be classified as casual or correlational, and correlation does not necessarily imply causation
- ---Scientific knowledge can describe the consequences of actions but does not necessarily prescribe the decisions that society takes
- ---stability might be disturbed either by sudden events or gradual changes that accumulate over time

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Modify rubric	Modify rubric	http://kids.nationalgeographic.com/
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Re-read text at teacher discretion	Re-read text at teacher discretion	ml Interactive science activities
Text in auditory format	Text in auditory format	http://classroom.jc-schools.net/sci-u nits/plants-animals.htm#Interactive
	Pre-teach vocabulary	Thesy plants animals. It in mineractive
	Non-linguistic cues	
	Manipulatives	
	Graphic organizers Use of educational websites: www.khanacademy.org www.colorincolorado.org/	

21st Century Education	Career Education
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#### THEMES:

Global Awareness Financial, Economic, Business and Entrepreneurial Literacy Civic Literacy Health Literacy

#### SKILLS:

Creativity and Innovation Critical Thinking and Problem Solving Communication and Collaboration Information Literacy Media Literacy ICT Literacy Life and Career Skills Career Ready Practices describe the career-ready skills that all educators in all content areas should seek to develop in their students. They are practices that have been linked to increase college, career, and life success. Career Ready Practices should be taught and reinforced in all career exploration and preparation programs with increasingly higher levels of complexity and expectation as a student advances through a program of study.

CRP1. Act as a responsible and contributing citizen and employee.

CRP2. Apply appropriate academic and technical skills.

CRP3. Attend to personal health and financial well-being.

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CRP5. Consider the environmental, social and economic impacts of decisions.

CRP6. Demonstrate creativity and innovation.

CRP7. Employ valid and reliable research strategies.

CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.

CRP9. Model integrity, ethical leadership and effective management.

CRP10. Plan education and career paths aligned to personal goals.

CRP11. Use technology to enhance productivity.

CRP12. Work productively in teams while using cultural global competence.

Standard: MS-ETS1 Content Topic: Engineering Design

Strand	Disciplinary Core Ideas / Essential Statement	Objective	Science & Engineering Practices / Skills & Lesson
MS-ETS1-1	The more precisely a design task's criteria and constraints can be defined, the more likely it is that the designed solution will be successful. Specification of constraints includes consideration of scientific principles and other relevant knowledge that are likely to limit possible solutions (ETS1.A)	Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions	Design a Water Treatment System-STEM Lab 1 Engineering, Technology, and Society  Earthquake Engineering Design Challenge STEM Lab 1 Science, Technology, and Society
MS-ETS1-2	There are systematic processes for evaluation solutions with respect to how well they meet the criteria and constraints of a problem (ETS1.B)	Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem	Design a Water Treatment System-STEM Lab 1 Engineering, Technology, and Society  Earthquake Engineering Design Challenge STEM Lab 1 Science, Technology, and Society
MS-ETS1-3	There are systematic processes for evaluation solutions with respect to how well they meet the criteria and constraints of a problem (ETS1.B) Sometimes parts of different solutions can be combined to create a solution that is better than any of its predecessors (ETS1.B) Although one design may not perform the best across all tests, identifying the characteristics of the design that performed the best in each test can provide useful	Analyze data from tests to determine similarities and differences among several design solutions to identify the best	Design a Water Treatment System-STEM Lab 1 Engineering, Technology, and Society Earthquake Engineering Design
	information for the redesign processthat is, some of those characteristics may be	characteristics of each that can be combined into a new solution to better meet the criteria for success	Challenge STEM Lab 1 Science, Technology, and Society

	incorporated into the new design (ETS1.C)		
MS-ET1-4	A solution needs to be tested, and then modified on the basis of the test results, in order to improve it (ETS1.B)		
	on the basis of the test results leads to greater refinement	Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved	Design a Water Treatment System-STEM Lab 1 Engineering, Technology, and Society  Earthquake Engineering Design Challenge STEM Lab 1 Science, Technology, and Society

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Investigating Water Usage	
Investigating Density	
Alternative Assessment- Alternative Assessment Book- Science Fusion	

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Graphic organizers Use of educational websites: www.khanacademy.org www.colorincolorado.org/	

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